

CLAIMS

1. Device (1) for sealing the barrel side of the bearing of a roll neck (2), with a sleeve (3), which is fitted on the roll neck (2) and to which a race (5) is assigned; with a bearing bush (7) supported in a chock (6); with rotary shaft seals, which are coordinated with the chock (6) by a mounting (11) and have radial lips (13, 13') that interact with the race (5); and with a sealing assembly (16) arranged in front of the rotary shaft seals towards the barrel of the roll (4), characterized by the fact that the mounting (11) and the radial lips (13, 13') are designed as a single part as a sealing element (8) and, together with a sealing lip (15, 15') of the sealing assembly (16), form a unit that is detachably joined with the chock (6) to provide a seal, and that the sealing assembly (16) has an L-shaped section (17) mounted on the end face (18) of the roll (4), that a labyrinth seal (19) is formed between the sidepieces of the L-shaped section (17) and the sealing element (8), and that the sealing lip (15, 15') rests against and seals the L-shaped section (17).

2. Device in accordance with Claim 1, characterized by the fact that the sealing element (8) and the sealing lip (15) of the sealing assembly (16) are formed as a single part.

3. Device in accordance with Claim 1, characterized by the fact that the sealing lip (15') of the sealing assembly (16) can be detachably connected with the sealing element (8).

4. Device in accordance with any of Claims 1 to 3, characterized by the fact that the mounting (11) and/or the radial lips (13, 13') and/or the sealing lip (15, 15') of the sealing assembly (16) consist of different materials.

5. Device in accordance with any of Claims 1 to 4, characterized by the fact that the mounting (11) has an extension (12), at the end of which there is at least one radial lip (13, 13') that has a sealed connection with the race (5).

6. Device in accordance with Claim 5, characterized by the fact that the mounting (11) and/or the radial lips (13, 13') and/or the sealing lip (15, 15') have reinforcements.

7. Device in accordance with Claim 5 or Claim 6, characterized by the fact that the mounting (11) and the extension (12) have a first connection (20), by which small

amounts of oil can be conveyed from an oil collection pocket (21) in the vicinity of the bearing to the region between the two radial lips (13, 13') for the purpose of lubricating the sealing lip (13) that faces away from the bearing with minimal amounts of oil, and that at least the extension (12) has a second connection (25), by which excess oil can be carried away from the region between the radial lips (13, 13').

8. Device in accordance with Claim 7, characterized by the fact that when the sealing element (8) has been installed, the first connection (20) in the respective upper region of the radial lips (13, 13') is located in about the 12 o'clock position and that the second connection (25) in the respective lower region of the radial lips (13, 13') is located just before or just after the 6 o'clock position.

9. Device in accordance with Claim 7 or Claim 8, characterized by the fact that the amount of the oil particles that are collected can be adjusted by the size of the opening of the oil collection pocket (21) and that the amount of oil that can be stored in the oil collection pocket (21) can be set by the oblique position and the depth of the oil collection pocket (21).

10. Device in accordance with any of Claims 1 to 9, characterized by the fact that the sealing element (8) can be adjusted on the chock (6) for the purpose of offset compensation.

11. Device in accordance with Claim 10, characterized by the fact that the sealing element (8) is arranged eccentrically by a fixed amount in the chock (6).

12. Device in accordance with any of Claims 1 to 11, characterized by the fact that instead of the sleeve and the bearing bush of a friction brake, an antifriction bearing system is used.